

MOTIONAL FEEDBACK SPEAKER

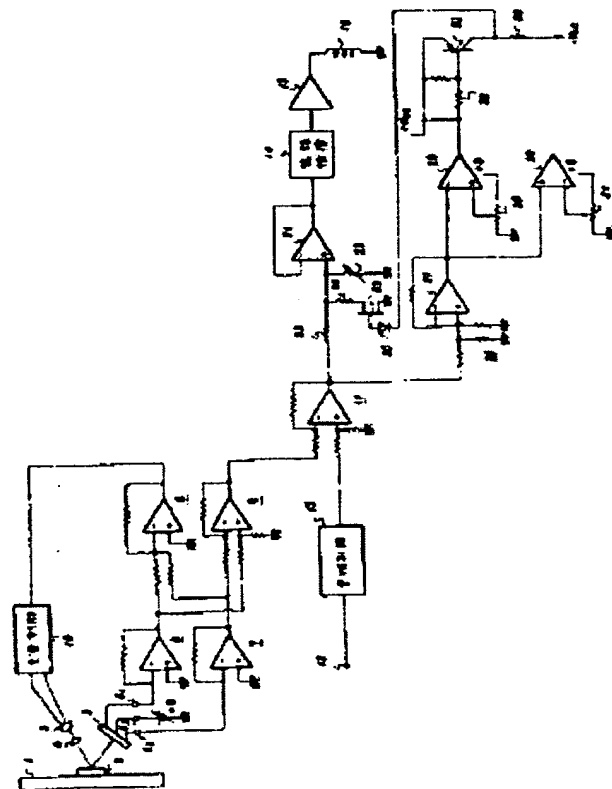
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- **International:** H04R3/04
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Abstract of JP60003298

PURPOSE: To eliminate shock sound when a servo loop is locked by detecting the displacement of a vibrating system of a speaker and controlling the gain of the servo loop.

CONSTITUTION: The displacement of the vibrating system of the speaker is detected by a photodetector 5, an output from a subtraction circuit 9 is given to a comparator circuit 11 so as to drive a driving coil 16 via a phase correcting filter 14 and a driving circuit 15. The displacement of a diaphragm 1 is subject to a servo so as to follow an audio signal applied to an input terminal 12 with fidelity. While the power is applied and the servo loop is locked, since the error signal of the comparator circuit 21 exceeds a reference value of comparator circuits 28, 29, a transistor 33 is turned off, an FET 25 is turned on, a resistor 24 is inserted in parallel with a resistor 23 so as to decrease the gain of the servo loop.



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